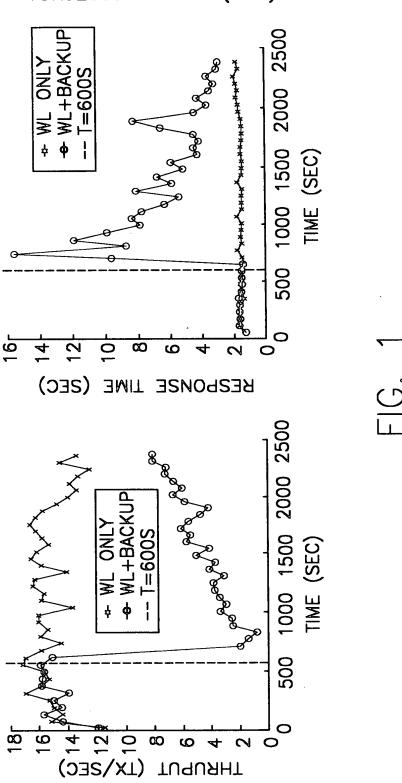


(REPLACEMENT SHEET)

1/14

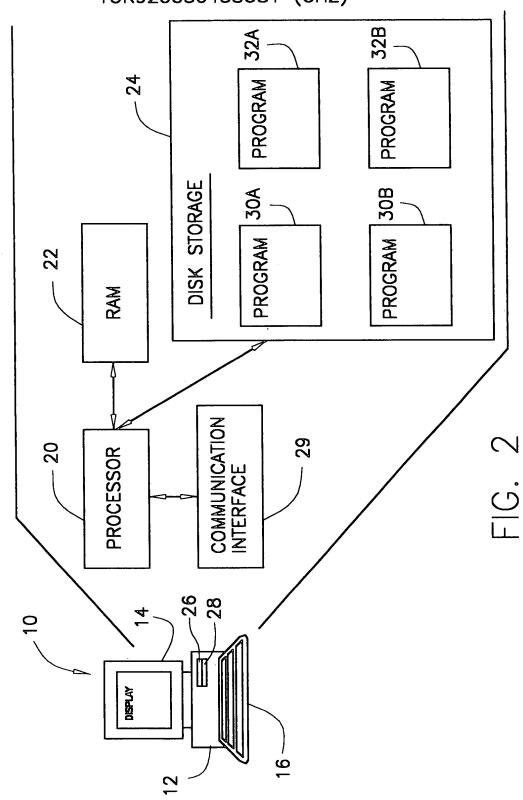
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(REPLACEMENT SHEET)

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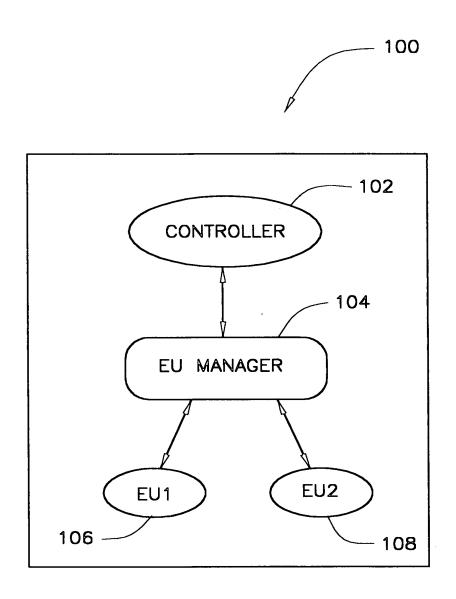


FIG. 3

(REPLACEMENT SHEET) 4/14 HURAS ET AL. YOR920030458US1 (GHZ) **START** - 120 INITIALIZE - 130 **OBTAIN INFORMATION ABOUT** THROTTLABLE EU'S 140 OBTAIN PERFORMANCE **METRICS** - 150 SET THROTTLING LEVELS FOR EU'S -160 YES ARE THROTTLING SERVICES **REQUIRED?** NO -170 TERMINATE/CLEANUP STOP FIG. 4

(REPLACEMENT SHEET) 5/14 HURAS ET AL. YOR920030458US1 (GHZ)

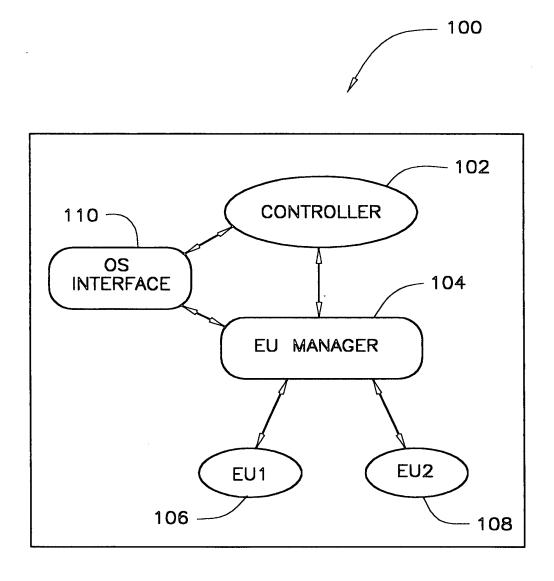


FIG. 5

(REPLACEMENT SHEET) 6/14 HURAS ET AL. YOR920030458US1 (GHZ)

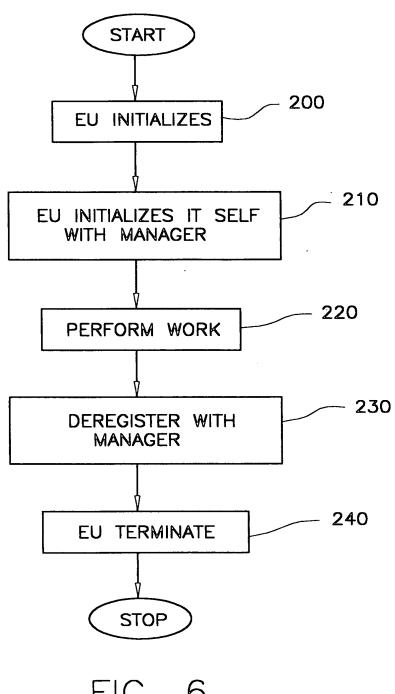
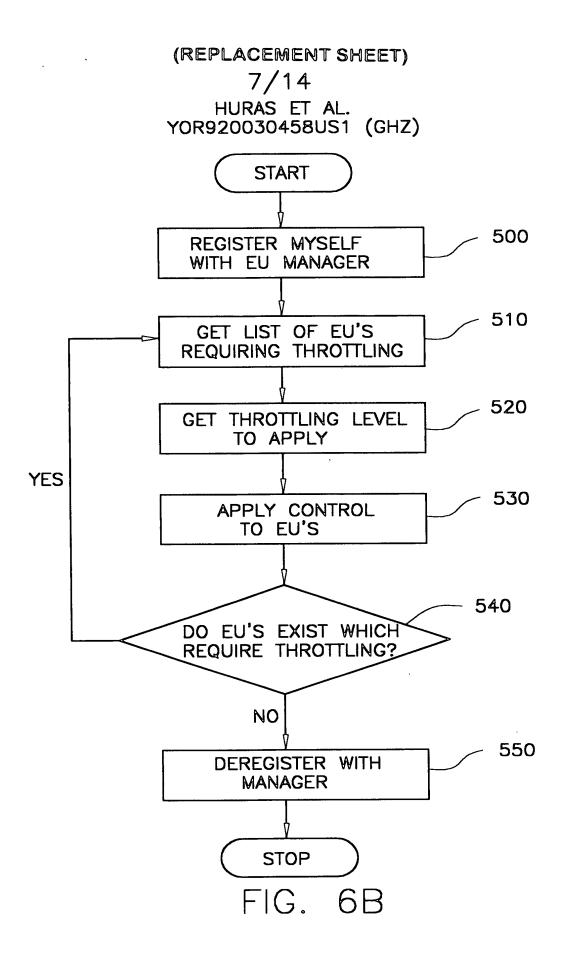
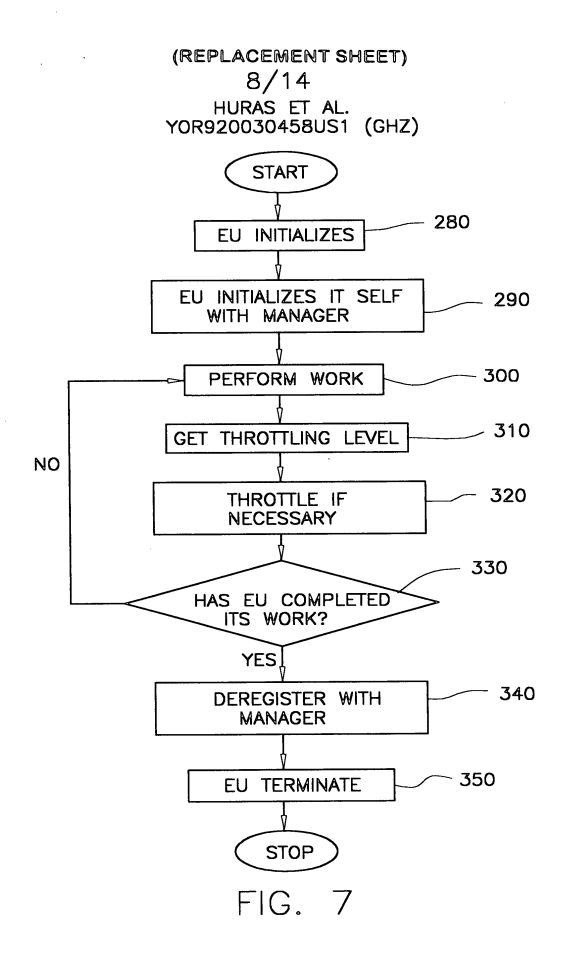
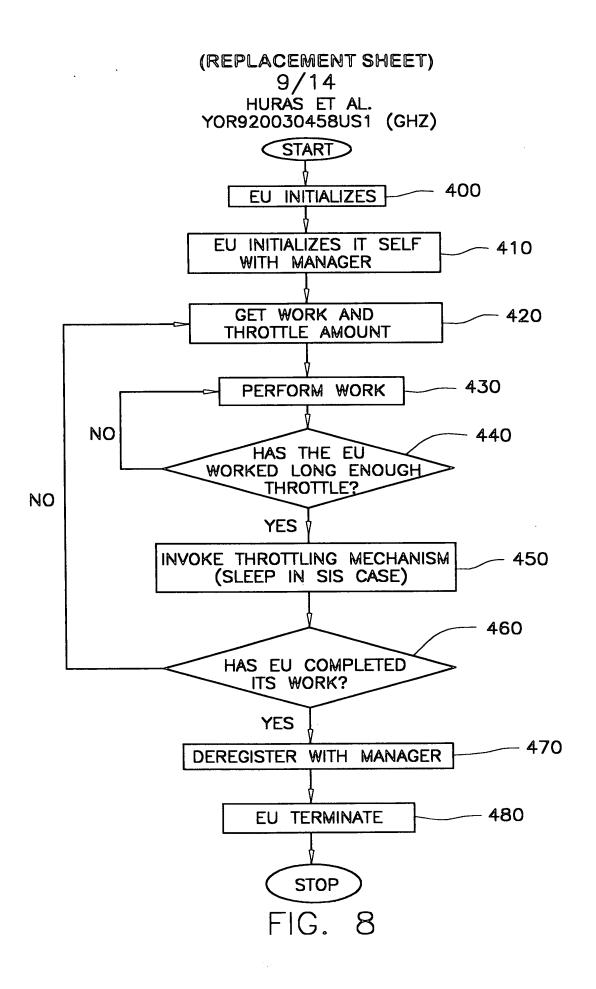


FIG. 6







(REPLACEMENT SHEET) 10/14 HURAS ET AL. YOR920030458US1 (GHZ)

```
COMPONENT ThrottleAgent
BEGIN
EUManager—>RegisterThrottleAgent();
While (EUManager—>IsThrottlingRequired())
BEGIN
EUList=EUManager—>GetListOfEUs(self);
ThrottlingLevels=EUManager—>GetThrottlingLevel(EUList);
...apply ThrottlingLevel to EUs In EUList....
END
EUManager—>DeregisterThrottleAgent();
END
```

(REPLACEMENT SHEET) 11/14 HURAS ET AL. YOR920030458US1 (GHZ)

```
COMPONENT EU
BEGIN
...Initialization...
EUManager—>RegisterEU(...args...);

While(NOT Done)
BEGIN
...Do some work...
ThrottlingLevel=EUManager—>GetThrottlingLevel(self);
Throttle(ThrottlingLevel);
END
...Termination...
EUManager—>DeRegisterEU();
END
```

```
(REPLACEMENT SHEET)

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```

```
FUNCTION Utility()
BEGIN
WHILE (NOT done)
BEGIN
...do some work...
Throttle If Needed()
END
END
```

(a) Inserting SIS point

```
FUNCTION Throttle If Needed()
BEGIN

(workTime, sleepTime) = GetThrottlingLevel();
timeWorked = Now() - workStart;
IF (timeWorked > workTime)
SLEEP ( sleepTime );
workStart = Now();
ENDIF
END
```

(b) SIS implementation

(REPLACEMENT SHEET) 13/14 HURAS ET AL. YOR920030458US1 (GHZ)

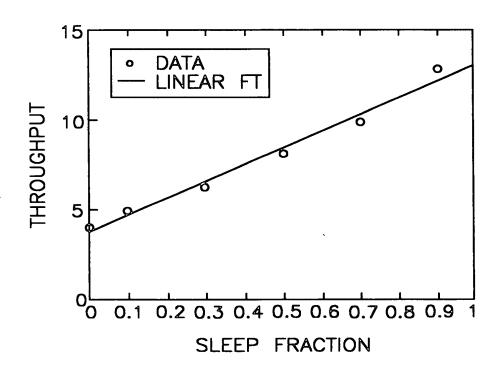


FIG. 12

(REPLACEMENT SHEET) 14/14 HURAS ET AL. YOR920030458US1 (GHZ)

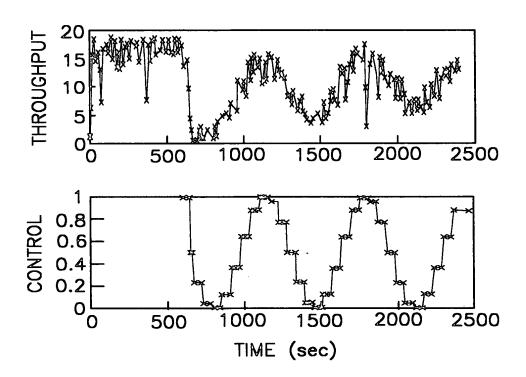


FIG. 13